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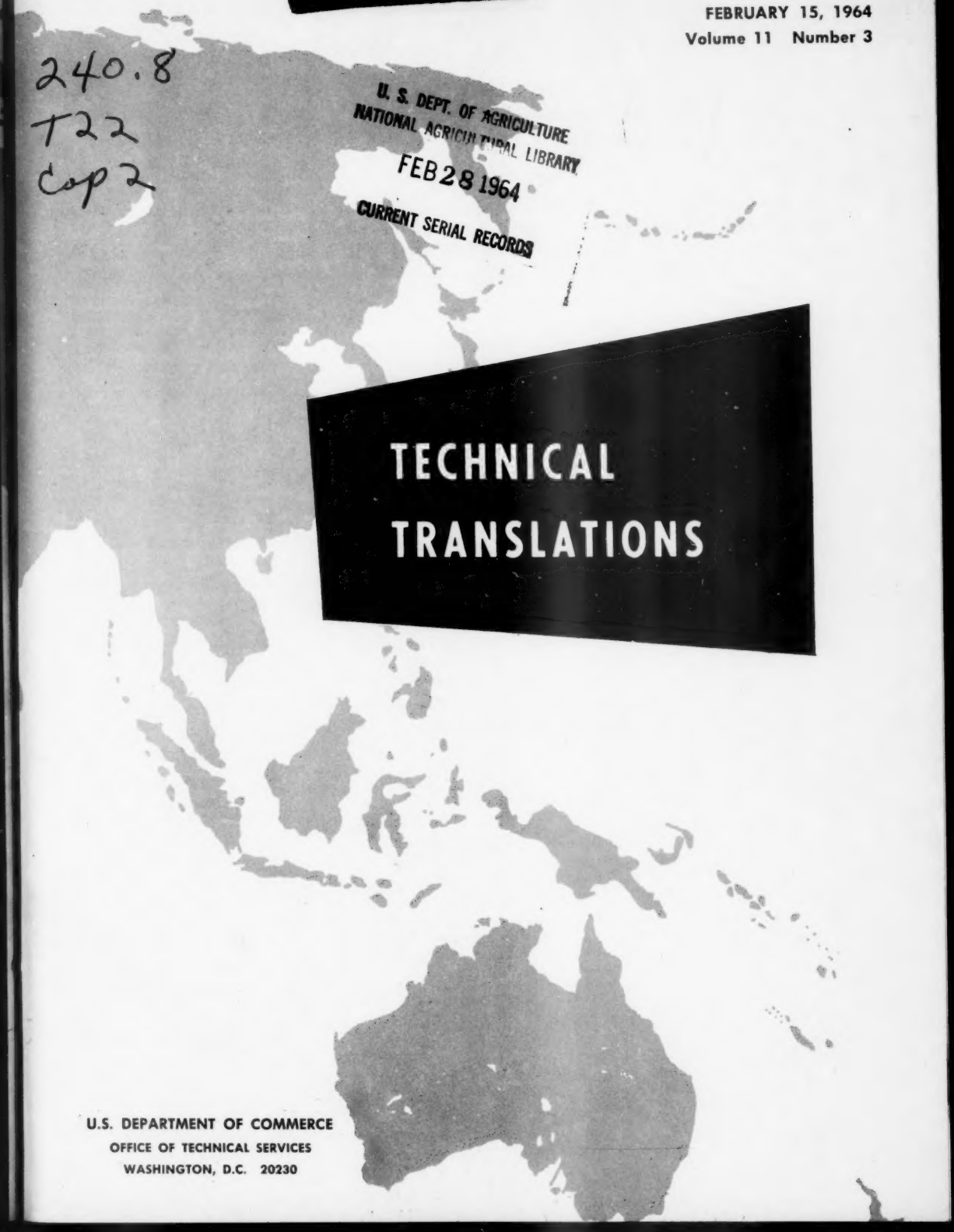

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
OFFICE OF TECHNICAL SERVICES
WASHINGTON, D.C. 20230

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, *Secretary*

OFFICE OF TECHNICAL SERVICES
Donald A. Schon, *Director*

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Washington, D. C. 20000

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
1515 Massachusetts Ave., N. W.
Washington, D. C. 20005

AIAA
American Institute of Aeronautics & Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

ANSP
Academy of Natural Sciences of Philadelphia
19th St. & The Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743,
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
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CNRS
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Centre de Documentation
15 Quai Anatole France
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CSIRO
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Information Service
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East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
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CTS (Chem)
Chemical Translating Service
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CTT
Columbia Technical Translations
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DI
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DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D. C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

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Superintendent of Documents
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GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P. O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. Box 569
London, S. E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers "Kultura"
Budapest 62, P. O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
14 Shammai Street
P. O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
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Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

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Bound Brook, New Jersey 08805

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Maclaren House
131 Great Suffolk Street
London, S. E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics & Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NRCC
National Research Council Library
Ottawa 2, Canada

OB
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Tweeddale Court
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Edinburgh 1, Scotland

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Optical Society of America, Inc.
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Cambridge, Massachusetts 02138

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Leicestershire, England

PLP
Plenum Press, Inc.
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New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
1069 Minami Nakadori 2-chome
Fujisawa, Japan

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TF
Taylor & Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TIB
Technische Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W. C. 2, England

TTIS
Translation & Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
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Seattle, Washington 98101
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TECHNICAL TRANSLATIONS

Volume 11, Number 3 Pages 127 - 191 February 15, 1964

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LUNG SECTIONS SHOW THE ACTION OF RAT POISON; BLOOD COAGULATION-INHIBITING PREPARATION FOR RAT CONTROL; ARE IMPROVEMENTS IN MOTH CONTROL STILL POSSIBLE? [1963] 2p (figs omitted) 1ref
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Trans. of [die] Umschau [in Wissenschaft und Technik] (West Germany) 1951, v. 51, no. 19, p. 605.

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Trans. from Chimie et Industrie (France) 1958, v. 76 [sic].

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY, NO. 96. 30 Oct 63, 17p JPRS: 21672.
Order from OTS $0.50 TT-63-41038

Trans. of V[ystavka] D[ostizhenii] N[arodnogo] Kh[ozyaistva] SSR. Informatsionnyi Byulleten', 1963, no. 9, p. 3-5, 21-22; Bakinskii Rabochii (USSR) 1963, 28 Aug, p. 3; Izvestiya (USSR) 1963, 27 Aug, p. 3; Mashinostroenie (USSR) 1963, no. 4, p. 92-94, ##102-104; Traktory i Sel'khozmashiny (USSR) 1963 [v. 33] no. 8, p. 36-38, 40-41.
##Another trans. is available from OTS $0.50 as TT-63-41096, JPRS-21784, 7 Nov 63, 5p.

Separate entries have been prepared for the individual papers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 99. 22 Nov 63, 12p JPRS: 22019.
Order from OTS $0.50 TT-63-41227

Consists of 4 articles from 1963 issues of Russian journals and newspapers.
Separate entries have been prepared for 3 articles.

Dotistov, F. M.
THE MVN-4.2 ROTATING MATTOCK. 30 Oct 63, 1p JPRS: 21672.
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Trans. from Traktory i Sel'khozmashiny (USSR) 1963 [v. 33] no. 8, p. 38.

Durov, V.
FORESTRY IMPLEMENTS AND MACHINES (Lesokhozyaistvennye Orudiya i Mashiny). 1963, 4p PL-480 Agr.
Order from OTS $0.50 TT-63-11051

Trans. of Tekhnika v Sel'skom Khozyaistve (USSR) 1960 [v. 20, no. 10] p. 79-81.

Gol'dman, E. I., Lysochenko, A. A., and Murav'ev, A. V.
NEW CAB FOR THE TDT-55 SKIDDING TRACTOR. 22 Nov 63, 2p JPRS: 22019.
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Partial trans. of Lesnaya Promyshlennost' (USSR) 1963 [v. 41] no. 8, p. 15-16.

Grigorov, V. A.
CONFERENCE, ON STANDARDIZATION AND SPECIALIZATION IN TRACTOR INDUSTRY, AT KHAR'KOV. 22 Nov 63, 5p JPRS: 22019.
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Trans. of Traktory i Sel'khozmashiny (USSR) 1963 [v. 33] no. 9, p. 1-2.

Kolyada, G. I.
THE "MIKRON" AAP-0.5 AEROSOL PULSATING APPARATUS. 30 Oct 63, 2p JPRS: 21672.
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Koval', I. A.
NEW SMD DIESEL ENGINES FOR TRACTORS AND COMBINES. 22 Nov 63, 3p JPRS: 22019.
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Trans. of Traktory i Sel'khozmashiny (USSR) 1963 [v. 33] no. 9, p. 3.

Loshchagin, E. I.
THE KIROV PLANT ON THE ALL UNION PLATFORM. 30 Oct 63, 3p JPRS: 21672.
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Trans. of V[ystavka] D[ostizhenii] N[arodnogo] Kh[ozyaistva] SSR. Informatsionnyi Byulleten', 1963, no. 9, p. 3-5, 21-22.

Merkulov, A.
CLOSER DIRECTOR-COLLECTIVE PARTICIPATION. 30 Oct 63, 2p JPRS: 21672.
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Trans. from Izvestiya (USSR) 1963, 27 Aug, p. 3.

Myagkov, G. T.
THE LDP-10 AND LOD-10 WIDE-SWATH STUBBLE PLOWS. 30 Oct 63, 1p JPRS: 21672.
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Trans. of Traktory i Sel'khozmashiny (USSR) 1963 [v. 33] no. 8, p. 40-41.

Nikolaev, Yu. A. and Kotov, P. S.
MACHINERY FOR MASS HARVESTING OF CABBAGE. 30 Oct 63, 3p JPRS: 21672.
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Trans. of Traktory i Sel'khozmashiny (USSR) 1963 [v. 33] no. 8, p. 36-38.

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FERTILIZERS. Sep 63, 31p
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Privol'nyi, A.
THE PLANT: DEBTOR OF THE COTTON GROWERS. 30 Oct 63, 3p JPRS: 21672.
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Trans. of Bakinskii Rabochii (USSR) 1963, 28 Aug, p. 3.

Shefter, Ya. I.
MORE USE OF WIND-POWERED INSTALLATIONS NEEDED IN SOVIET AGRICULTURE. 11 Oct 63, 8p JPRS: 21417.
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Trans. of Byulleten' Tekhniko-Ekonomicheskoi Informatsii (USSR) 1963, no. 7, p. 28-33.

Vasilenko, V. I.
LIPETSK T-40 TRACTOR. 30 Oct 63, 2p JPRS: 21672.
Order from OTS $0.50 in TT-63-41038 (p. 9-10)

Trans. of Mashinostroenie (USSR) 1963, no. 4, p. 92-94.

Animal Husbandry

Bioko, A. A.
TO IMPROVE METHODS OF ERADICATION OF THE FOOT-AND-MOUTH DISEASE (Sovershenstvovat' Meropriyatiya po Iskoreneniyu Yashchura). 16 Aug 63, 12p
Trans. V-1843.
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Trans. of Veterinariya (USSR) 1963, v. 40, no. 3, p. 5-9

Ipatenko, N. G.
VETERINARY-SANITARY MEASURES IN THE CASE OF LOOSE HOUSING OF ANIMALS (Veterinarno-Sanitarnye Meropriyatiya pri Besprivyaznom Soderzhanii Zhivotnykh). 13 Sep 63, 8p Trans. V-1853.
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Trans. of Veterinariya (USSR) 1962, v. 39, no. 12. p. 47-52.

Osidze, D. F. and Serov, M. F.
SEMINAR OF VETERINARY VIROLOGY (Seminar po Veterinarnoi Virusologii). 8 Aug 63, 10p
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Trans. of Veterinariya (USSR) 1963, v. 40, no. 1, p. 89-92.

Plant Cultivation

Grushevoi, S. E.
PERMISSIBLE SUSCEPTIBILITY OF CULTIVATED PLANT VARIETIES TO INFECTIOUS DISEASES (Dopustimaya Vospriimchivost' Sortov Kul'turnykh Rastenii k Infektsionnym Zabolevaniyam) tr. by C. F. M. 13 Sep 63, 6p 6refs I-3319.
Order from OTS $0.50 TT-63-11726

Trans. of Nauchnye Doklady Vysshei Shkoly. Biologicheskie Nauki (USSR) 1963, no. 1, p. 100-15. (Abstract available)

Kuzin, A. M.
UTILISATION EN AGRICULTURE DE L'IRRADIATION DES SEMENCES AVANT PLANTATION [Ob Ispol'zovanii v Sel'skom Khozyaistve Metoda Predposevnogo v Oblucheniya Semyan] [On the Application of Pre-sowing X-ray Radiation in Agriculture] Koslovsky, tr.
29 Sep 62 [10p] 22refs CEA Trans. no. R 1664.
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Trans. in French of Vestn[ik] Sel'skokhoz[yaistvennoi] Nauk[i] (USSR) 1960, v. 5, no. 7, p. 127-130.

Telenga, N. A., Zhiglev, G. N., Zakharenko, N. L., and Nevkryta, A. N.
THE BIOLOGICAL METHOD OF CONTROLLING THE SUGAR-BEET WEEVIL. [1961] [7p] 2refs
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Trans. of [Ukrayins'kyi Naukovo-Doslidnyi Instytut Zakhystu Roslyn. Nauchnye Trudy] (USSR) 1957, v. 2, p. 41-47.

ASTRONOMY

Moiseev, N.
ON THE CONSTRUCTION OF CONDITIONAL DOMAINS OF SINGLE-TYPE CONTACTS IN THE CASE OF THREE FREEDOM DEGREES. [1962] [5]p.
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Trans. of [Moscow U. Gosudarstvennyi Astronomicheskii Institut. Trudy] (USSR) 1940, v. 14, no. 1, p. 69-71.

Astrophysics

Dolginov, Sh. Sh. and Pushkov, N. V.
STUDY OF THE MAGNETIC FIELD IN OUTER SPACE. 29 Oct 63, 83p 103refs FTD-TT-63-968.
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Unedited rough draft trans. from Kosmicheskie Issledovaniya (USSR) 1963, v. 1, no. 1. (Abstract available)

Shmakova, M. Ya. and Sochilina, A. S.
APPROXIMATE DETERMINATION OF THE CIRCULAR ORBIT OF AN ASTEROID. [1963] 8p 4refs
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Trans. of [Akademiya Nauk SSSR]. Institut Teoreticheskoi Astronomii. Byulleten', 1958, v. 7, no. 1(84) p. 72-75. (Abstract available)

BEHAVIORAL SCIENCES

Jampolsky, P.
THE COLLABORATION OF VISION AND THE STATIC SENSE IN SPATIAL PERCEPTIONS (La Collaboration de la Vue et du Sens Statique dans les Perceptions Spatiales). [1961] [20p] 3refs
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Trans. of l'Année Psychol[ogique] (France) 1940/41, v. 41/42 [no. 1] p. 46-64.

Personnel and Training

BIOGRAPHIES OF SOVIET SCIENTISTS. 20 Nov 63, 32p JPRS: 21937.
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Order from NRCC $1.00 NRCC-C-4331

Trans. of mono. Predpostroechnoe Protaivanie Mnogoletnemerzlykh Gornykh Porod pri Vozvedenii na Nikh Sooruzhenii (Thawing of Permafrost prior to the Erection of Structures) Moscow, 1958, p. 21-38.

Electrical and Electronic Engineering

DATA PROCESSING UNIT ASSISTS FOREMAN AT ENERGOPRIBOR PLANT. 13 Nov 63, 2p JPRS: 21855.
Order from OTS $2.00 in TT-63-41134 (p. 61-62)

Trans. from Pravda, Moscow (USSR) 1963, 5 Sep, p. 1.

HEARLD OF COMMUNICATIONS, 1963 [VOL. 23] NO. 8(281). 13 Nov 63, 145p JPRS: 21842.
Order from OTS $2.75 TT-63-41131

Trans. of Vestnik Svyazi (USSR) 1963 [v. 23] no. 8(281) p. 1-34 including covers.

Separate entries have been prepared for 12 articles.

LATEST COMMUNICATION EQUIPMENT: TRANSISTORIZED INSTRUMENT OF THE TYPE EIR-1; RADIO RECEIVER "AUSMA"; PULSE DEVICE UIP-5k FOR THE INVESTIGATION OF COAXIAL CABLE. 13 Nov 63, 3p JPRS: 21842.
Order from OTS $2.75 in TT-63-41131 (p. 139-141)

Trans. from Vestnik Svyazi (USSR) 1963 [v. 23] no. 8(281) back cover.

A MINIATURE BOILER PLANT. 13 Nov 63, 2p JPRS: 21855.
Order from OTS $2.00 in TT-63-41134 (p. 8-9)

Trans. of Tekhnika Molodezhi (USSR) 1963 [v. 31] no. 8, p. 10.

NEW ELECTRICAL EQUIPMENT. 11 Oct 63, 3p JPRS: 21417.
Order from OTS $2.50 in TT-63-31922 (p. 1-3)

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TAPE RECORDER MG-201 (KOMETA). 3 Oct 63 [4p] FTD-TT-63-858.
Order from OTS, SLA, or ETC $1.10 TT-64-13060

Unedited rough draft trans. of mono. (specification) Magnitofon MG-201 (Kometa) Moscow. n.d., p. 2.

ULTRASONICS USED TO REGULATE DISPATCHING OF PETROLEUM PRODUCTS THROUGH INDUSTRIAL PIPELINES. 11 Oct 63, 2p JPRS: 21417.
Order from OTS $2.50 in TT-63-31922 (p. 9-10)

Trans. from Kurskaya Pravda (USSR) 1963, 8 Jun, p. 2.

USSR INDUSTRIAL DEVELOPMENT: SOVIET ELECTRICAL EQUIPMENT NO. 77. 11 Oct 63, 107p JPRS: 21417.
Order from OTS $2.50 TT-63-31922

Consists of 56 articles from 1963 issues of Russian journals and newspapers. Separate entries have been prepared for 6 articles.

USSR INDUSTRIAL DEVELOPMENT: SOVIET ELECTRICAL EQUIPMENT NO. 78. 13 Nov 63, 67p JPRS: 21855.
Order from OTS $2.00 TT-63-41134

Consists of 51 articles from 1963 issues of Russian journals and newspapers. Separate entries have been prepared for 8 articles.

WIRELESS COMMUNICATION BETWEEN SURFACE AND SHAFT. 7 Oct 63 [3p] FTD-TT-63-860. –
Order from OTS, SLA, or ETC $1.10 TT-64-13056

Unedited rough draft trans. of mono. (pamphlet) Besprovodnaya Svyaz' Poverkhnosti s Shakhtoi, n.p., 1961, p. 2.

Al'per, N. Ya. and Pleshchunov, N. N.
VOLTAGE STABILISATION OF GENERATORS HAVING PERMANENT MAGNETS (Stabilizatsiya Napryazheniya Generatorov s Postoyannymi Magnitami) tr. by J. W. Palmer. Aug 60 [10p] 4refs RAE Library Trans. no. 911.
Order from OTS, SLA, or ETC $1.10 TT-63-24307

Trans. of Vestnik Elektropromyshlennosti (USSR) 1958 [v. 29] no. 9, p. 29-34. (Abstract available)

Andrianov K. and Krestov, N.
POLYMERS AS ELECTRIC INSULATING MATERIAL. 13 Nov 63, 4p JPRS: 21855.
Order from OTS $2.00 in TT-63-41134 (p. 63-66)

Trans. from Pravda, Moscow (USSR) 1963, 31 Aug, p. 2.

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Order from OTS $2.00 in TT-63-41134 (p. 15-17)

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Gabuzova, E.
ARMENIAN ELECTRIC MACHINERY BUILDING PLANT IMENI LENIN RESOLVES TO EXCEED ANNUAL QUOTA. 13 Nov 63, 1p JPRS: 21855.
Order from OTS $2.00 in TT-63-41134 (p. 21)

Trans. from Kommunist, Erevan (USSR) 1963, 5 Sep, p. 1.

Gein, E. E.
EXPANSION OF THE UPPER LIMIT OF MEASUREMENT OF FIELD INTENSITY BY MEANS OF A COMPARATOR WITH A ROUND SCREENED LOOP. 13 Nov 63, 2p JPRS: 21842.
Order from OTS $2.75 in TT-63-41131 (p. 52-53)

Trans. of Vestnik Svyazi (USSR) 1963 [v. 23] no. 8(281) p. 12. (Abstract available)

Groher, H.
INTERESTING CASES OF SPECIAL LIGHTING IN INDUSTRY. [1961] 4p (figs omitted)
Order from SLA $1.10 TT-61-10081

Trans. of Werkstatt und Betrieb (Germany) 1937, v. 70 [no. 15/16] p. 203-205.

Heimann, W. and Kunze, C.
INFRARED-VIDIKON. [1963] 9p (figs. omitted) 7 refs.
Order from SLA $1.10 TT-63-18868

Trans. of Infrared Physics (Great Britain) 1962, v. 2, p. 175-181. (Abstract available)

Kapitsa, P. L.
HIGH POWER ELECTRONICS. 5 Sep 63 [172p] 4refs FTD-TT-63-253.
Order from OTS $3.00 TT-63-11747

Unedited rough draft trans. of #Uspekhi Fizicheskikh Nauk (USSR) 1962, v. 78, no. 2, p. 181-265. (Abstract available)

Kirpichnikova, I., Pavlova, G., and Snytkin, V.
THE SAYANSKAYA HYDROELECTRIC POWER STATION. 13 Nov 63, 1p JPRS: 21855.
Order from OTS $2.00 in TT-63-41134 (p. 26)

Trans. of a Russian article from an unidentified newspaper, n.d.

Kokhanova, Z. S.
SUBSCRIBER'S IDENTIFIER FOR A CROSSBAR-ELECTRONIC-SUBSTATION MARKER. 13 Nov 63, 10p JPRS: 21842.
Order from OTS $2.75 in TT-63-41131 (p. 32-41)

Trans. of Vestnik Svyazi (USSR) 1963 [v. 23] no. 8(281) p. 7-9. (Abstract available)

Korablev, L. N.
COLD-CATHODE TUBES. 2 Aug 63 [244p] 198refs FTD-TT-63-422.
Order from OTS $3.50 TT-63-11746

Unedited rough draft trans. of mono. Lampy s Kholodnym Katodom, Moscow, 1961, p. 3-175. (Abstract available)

Krasil'nikov, L. V. and Meshkov, V. K.
THE SELF-SYNCHRONISATION OF GENERATORS "FROM ZERO" DURING RESTORATION OF VOLTAGE IN A POWER SYSTEM (Samosinkhronizatsiya Generatorov "S Nulya" pri Vosstanovlenii Napryazheniya v Energosisteme) tr. by G. Kinner. Jan 61 [15p] RAE Library Trans. no. 929; AD-251 066.
Order from OTS, SLA, or ETC $1.60 TT-63-24318

Trans. of Elektricheskie Stantsii (USSR) 1959 [v. 30] no. 11, p. 33-41. (Abstract available)

Krinetskii, I. I.
CALCULATIONS FOR NONLINEAR AUTOMATIC SYSTEMS. 12 Aug 63 [234p] 14refs FTD-TT-63-125.
Order from OTS, SLA, or ETC $15.50 TT-63-24149

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Order from SLA $1.60 TT-63-20641

Trans. of French language article from unidentified source, n.d.

Liske, Manfred.
RELAY DEVICE. 18 June 63 [6]p. FTD-TT-63-499.
Order from OTS, SLA, or ETC $1.10 TT-63-23447

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Litvinenko, N. A.
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Order from OTS $2.75 in TT-63-41131 (p. 73-76)

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Order from OTS $0.50 TT-63-11715

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Mel'nik, S. O.
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A NEW HIGH-POWER TRANSFORMER UNIT FOR ROLLING MILLS. 11 Oct 63, 2p JPRS: 21417.
Order from OTS $2.50 in TT-63-31922 (p. 39-40)

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Technical specifications are given.

Obolenskii, N.
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Oden, H.
CURRENT PROBLEMS IN TELEPHONE SWITCHING TECHNOLOGY. [1963] 60p 46refs
Order from SLA $5.60 TT-63-20614

Trans. of expanded version of a talk given in May 62, at the Extension Institute of the Vienna Institute of Technology and issued by Mix and Genest Co.

Pas'ko, Semen.
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Order from OTS $2.00 in TT-63-41134 (p. 56-59)

Trans. from Sovetskaya Moldaviya (USSR) 1963, 5 Sep, p. 2.

Primochenko, A.
AZERELEKTROSVET PLANT INSTITUTES NEWS SERVICES. 13 Nov 63, 2p JPRS: 21855.
Order from OTS $2.00 in TT-63-41134 (p. 18-19)

Trans. from Bakinskii Rabochii (USSR) 1963, 3 Sep, p. 2.

Rakov, A. I.
CALCULATION OF THE INTERVALS OF RADIO-RELAY LINKS WITH PASSIVE RELAY STATIONS. 13 Nov 63, 4p JPRS: 21842.
Order from OTS $2.75 in TT-63-41131 (p. 61-64)

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NEW REMOTE CONTROL EQUIPMENT FOR HIGH-TENSION AUTOMATIC BLOCKING DISCONNECTORS. 11 Oct 63, 1p JPRS: 21417.
Order from OTS $2.50 in TT-63-31922 (p. 14-15)

Trans. of Avtomatika, Telemekhanika i Svyaz' (USSR) 1963 [v. 7] no. 7, p. 14-16.

Saenko, F. I.
INK FOR THE ADDITIONAL IMPREGNATION OF RIBBONS FOR CALCULATING MACHINES AND TELEGRAPHS. 13 Nov 63, 2p JPRS: 21842.
Order from OTS $2.75 in TT-63-41131 (p. 65-66)

Trans. of Vestnik Svyazi (USSR) 1963, [v. 23] no. 8(281) p. 15. (Abstract available)

Sakharova, T. M.
ON THE MEASURES FOR THE PROTECTION OF CIRCUITS IN LOW-FREQUENCY SPIRAL-QUAD CABLES. 13 Nov 63, 7p JPRS: 21842.
Order from OTS $2.75 in TT-63-41131 (p. 54-60)

Trans. of Vestnik Svyazi (USSR) 1963 [v. 23] no. 8(281) p. 13-14. (Abstract available)

Savalin, K. G.
PROTECTION OF THE ELECTRIC MOTOR OF COMPRESSOR FROM OVERHEATING. 13 Nov 63, 4p JPRS: 21842.
Order from OTS $2.75 in TT-63-41131 (p. 120-123)

Trans. of Vestnik Svyazi (USSR) 1963 [v. 23] no. 8(281) p. 29-30.

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ADAPTATION OF MULTIPLEXING EQUIPMENT OF THE TYPE VS-3 FOR USE ON RADIO-COMMUNICATION CHANNELS. 13 Nov 63, 9p JPRS: 21842.
Order from OTS $2.75 in TT-63-41131 (p. 23-31)

Trans. of Vestnik Svyazi (USSR) 1963 [v. 23] no. 8(281) p. 5-7. (Abstract available)

Svistel'nikov, G. A.
SELF-SUPPORTING SYSTEM MUST BE IMPROVED 13 Nov 63, 6p JPRS: 21842.
Order from OTS $2.75 in TT-63-41131 (p. 67-72)

Trans. of Vestnik Svyazi (USSR) 1963 [v. 23] no. 8(281) p. 16-17. (Abstract available)

Zakharov, Yu. K.
USE OF TRANSISTORS FOR CONVERTING DIRECT CURRENT. 1 May 63 [13]p. 3 refs. FTD-TT-63-179.
Order from OTS, SLA, or ETC $1.60 TT-63-23103

Unedited rough draft trans. of Poluprovodnikovye Pribory i Ikh Primenenie: Sbornik Statei (USSR) 1960, v. 4, p. 298-307. (Abstract available)

Ordnance, Missiles, and Satellite Vehicles

COSMIC RESEARCH, 1963, VOL. 1, NO. 1.
29 Oct 63 [346p] FTD-TT-63-968.
Order from OTS, SLA, or ETC $19.75 TT-63-24260

Unedited rough draft trans. of Kosmicheskie Issledovaniya (USSR) 1963, v. 1, no. 1, p. 1-192.

Separate entries have been prepared for the individual articles included in this issue.

FURTHER PROGRESS OF THE SOVIET SPACE VEHICLE MARS I: TASS REPORTS, tr. by J. W. T. Palmer. 14 Feb 63 [10p] RAE Library Press Trans. no. 29.
Order from OTS, SLA, or ETC $1.10 TT-63-24163

Trans. of excerpts from Pravda [Moscow] (USSR) selected Nov 62-Jan 63 issues.

THE SOVIET SATELLITE "COSMOS 8": TASS REPORT, tr. by J. W. T. Palmer. 22 Aug 62 [2p] RAE Library Press Trans. no. 23.
Order from OTS, SLA, or ETC $1.10 TT-63-24156

Trans. from Pravda [Moscow] (USSR) 1962, 19 Aug. (Abstract available)

THE SOVIET SATELLITE "COSMOS 9": TASS REPORT, tr. by J. W. T. Palmer. 8 Oct 62 [2p] RAE Library Press Trans. no. 24.
Order from OTS, SLA or ETC, $1.10 TT-63-24158

Trans. from Pravda [Moscow] (USSR) 1962, 28 Sep.

THE SOVIET SATELLITE "COSMOS 10": TASS REPORT, tr. by J. W. T. Palmer. 2 Nov 62 [2p] RAE Library Press Trans. no. 25.
Order from OTS, SLA or ETC $1.10 TT-63-24159

Trans. from Pravda [Moscow] (USSR) 1962, 18 Oct. (Abstract available)

THE SOVIET SATELLITE "COSMOS 11": TASS REPORT, tr. by J. W. T. Palmer. 2 Nov 62 [2p] RAE Library Press Trans. no. 26.
Order from OTS, SLA or ETC $1.10 TT-63-24160

Trans. from Pravda [Moscow] (USSR) 1962, 21 Oct. (Abstract available)

THE SOVIET SATELLITE COSMOS 13: TASS REPORT, tr. by J. W. T. Palmer. 17 Apr 63 [2p] RAE Library Press Trans. no. 30.
Order from OTS, SLA or ETC $1.10 TT-63-24164

Trans. from Pravda [Moscow] (USSR) 1963, 22 Mar. (Abstract available)

THE SOVIET SATELLITE COSMOS 16: TASS REPORT, tr. by J. W. T. Palmer. 6 May 63 [3p] RAE Library Press Trans. no. 33.
Order from OTS, SLA or ETC $1.10 TT-63-24167

Trans. from Pravda [Moscow] (USSR) 1963, 29 Apr. (Abstract available)

TRACKING OF MISSILES AND SPACE VEHICLES: COMPILATION OF ABSTRACTS. Rept. no. 20 on AID Work Assignment no. 12 reviewing Soviet Developments in Tracking Missiles and Space Vehicles.
4 Nov 63 [26p] 30refs AID Rept. P-63-118.
Order from OTS, SLA, or ETC $2.60 TT-63-24434

Akim, E. L. and Eneev, T. M.
DETERMINATION OF THE PARAMETERS OF MOTION OF A SPACE VEHICLE USING TRAJECTORY-MEASUREMENT DATA. 29 Oct 63, 79p 9refs FTD-TT-63-968.
Order from OTS, SLA, or ETC $19.75 in TT-63-24260 (p. 3-81)

Unedited rough draft trans. from Kosmicheskie Issledovaniya (USSR) 1963, v. 1, no. 1. (Abstract available)

Batrakov, Yu. V. and Proskurin, V. F.
ON THE PERTURBATIONS OF THE ORBITS OF ARTIFICIAL SATELLITES INDUCED BY AIR DRAG (O Vozmushcheniyakh Orbit Iskusstvennykh Sputnikov, Vyzyvaemykh Soprotivleniem Vozdukha) tr. by J. W. Palmer. Apr 60 [16p] 4refs RAE Library Trans. no. 897.
Order from OTS, SLA, or ETC $1.60 TT-63-24298

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1959, v. 3, p. 39-46.
Another trans. is available from OTS or SLA $1.60 as TT-61-11113, NASA TT-F-46, Nov 60, 13p.

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EMPIRICALLY DETERMINED AIR RESISTANCE LAWS AND PERTINENT EXPERIMENTS. [1963] 7p (figs tables omitted)
Order from SLA $1.10 TT-63-20787

Trans. of mono. [Lehrbuch der Ballistik. I. Aussere Ballistik] (Textbook of Ballistics. I. Exterior Ballistics) [Berlin, 1925] chap. 2, sect. 10, p. 54-63.
A complete trans. of chap. 2 is available from SLA mi$3.90, ph$10.80 as 59-20060 [67p].

El'yasberg, P. E.
THE RELATIONSHIP OF SECULAR VARIATIONS OF ORBITAL ELEMENTS TO AIR DRAG (Zavismost' Vekovykh Izmenenii Elementov Orbit ot Soprotivleniya Vozdukha) tr. by J. W. Palmer. Apr 60 [12p] 4refs RAE Library Trans. no. 893.
Order from OTS, SLA, or ETC $1.60 TT-63-24295

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1959, v. 3, p. 54-60.
Another trans. is available from OTS $0.50 as 61-11111, NASA TT-F-47, Nov 60, 10p.

Lyapunov, B. V.
ROCKETS AND INTERPLANETARY FLIGHTS.
11 Jun 63 [142p] 65refs FTD-TT-63-210.
Order from OTS, SLA, or ETC $11.00 TT-63-24136

Unedited rough draft trans. of mono. Rakety i Mezhplanetnye Polety, Moscow, 1962, 122p. (Abstract available)

Nazarova, T. N., Bektabegov, A. K., and Komissarov, O. D.
PRELIMINARY RESULTS OF THE INVESTIGATION OF METEORIC MATTER ALONG THE FLIGHT TRAJECTORY OF THE MARS-1 INTERPLANETARY STATION. 29 Oct 63, 6p FTD-TT-63-968.
Order from OTS, SLA, or ETC $19.75 in TT-63-24260 (p. 302-307)

Unedited rough draft trans. from Kosmicheskie Issledovaniya (USSR) 1963, v. 1, no. 1. (Abstract available)

Perel'man, R. G.
ENGINES FOR INTERSTELLAR SHIPS. 6 Sep 63 [243p] (figs omitted) 82refs FTD-TT-63-92.
Order from OTS, SLA or ETC $16.00 TT-63-24148

Unedited rough draft trans. of mono. Dvigateli Galakticheskikh Korablei, Moscow, 1962, 199p.

Titov, German.
WITH A CAMERA IN SPACE (S Kinoapparatom v Kosmose) tr. by J. W. Palmer. Dec 61 [7p] RAE Library Trans. no. 979.
Order from OTS, SLA, or ETC $1.10 TT-63-24342

Trans. of Priroda (USSR) 1961 [v. 50] no. 11, p. 8-9.

Yarov-Yarovoi, M. S.
SOLUTION OF THE EULER-LAMBERT EQUATION FOR FLIGHT ORBITS CLOSE TO THE HOHMANN ORBITS. 29 Oct 63, 7p 4refs. FTD-TT-63-968.
Order from OTS, SLA, or ETC $19.75 in TT-63-24260 (p. 82-88)

Unedited rough draft trans. from Kosmicheskie Issledovaniya (USSR) 1963, v. 1, no. 1. (Abstract available)

Zaitsev, V.
MAGNETIC ARMOR PROTECTS AGAINST COSMIC SHOWERS. 15 Aug 63 [12p] (figs omitted) FTD-TT-63-760.
Order from OTS, SLA or ETC $1.60 TT-63-24231

Unedited rough draft trans. of Tekhnika Molodezhi (USSR) 1963 [v. 31] no. 3, p. 35-37.

FOOD, HANDLING, AND PACKAGING EQUIPMENT

Food

THE USE OF IONIZING RADIATION IN POTATO STORAGE AND DISEASE PROBLEMS: SELECTED ARTICLES. 1963, 79p 113refs PL-480 Agr.
Order from OTS $0.75 TT-63-11011

Trans. of Biokhimiya Plodov i Ovoshchei (USSR) 1959, v. 5, p. 5-101; Vsesoyuznaya Akademiya Sel'skokhozyaistvennykh Nauk. Doklady (USSR) 1959 [v. 24] no. 9, p. 14-17.

Separate entries have been prepared for the individual articles.

Dubourg, J. and Devillers, P.
DETERIORATION APPEARING IN BOILED SUGAR DURING BULK STORAGE. [1963] 4p.
Order from SLA $1.10 TT-63-16354

Trans. of Sucr[erie] Franç[aise] 1960 [v. 101] no. 7, p. 163-165. (Abstract available)

Kozenko, E. M. and Romanova, N. M.
THE ACID-SALT BALANCE IN GRAPE-JUICE AND WINE (Kislotno-Solevoi Balans Soka i Vina) tr. by V. A. Soloduhin. [1963] [8p] (foreign text included) [CSIRO] Trans. no. 6347.
Order from OTS, SLA or ETC $1.10 TT-63-24069

Trans. of Vinodelie i Vinogradarstvo SSSR, 1962 [v. 22] no. 4, p. 19-22. (Abstract available)

Mukhin, E. N.
THE ACTION OF IONIZING RADIATION ON THE RESISTANCE OF POTATO TUBERS TO FUNGI (FUSARIUM sp.) (Deistvie Ioniziruyushchei Radiatsii na Ustoichivost' Klubnei Kartofelya k Gribam). 1963, 4p PL-480 Agr
Order from OTS $0.75 in TT-63-11011 (p. 76-79)

Trans. of Vsesoyuznaya Akademiya Sel'skokhozyaistvennykh Nauk. Doklady (USSR) 1959 [v. 24] no. 9, p. 14-17.

Rubin, B. A., Metlitskii, L. V., Sal'kova, E. G., Mukhin, E. N., and Korableva, N. P.
THE USE OF IONIZING RADIATION TO CONTROL THE DORMANCY OF POTATO TUBERS DURING STORAGE (Ispol'zovanie Ioniziruyushchikh Izluchenii dlya Upravleniya Pokoem Klubnei Kartofelya pri Khranenii). 1963, 75p 113refs PL-480 Agr.
Order from OTS $0.75 in TT-63-11011 (p. 1-75)

Trans. of Biokhimiya Plodov i Ovoshchei (USSR) 1959, v. 5, p. 5-101.

MACHINERY, FABRICATION, AND ACCESSORY EQUIPMENT

NEW MACHINES. 18 Nov 63, 3p JPRS: 21892.
Order from OTS $0.50 in TT-63-41149 (p. 12-14)

Trans. of Stroitel'nye i Dorozhnye Mashiny (USSR) 1963 [v. 8] no. 8, p. 31-32.

USSR INDUSTRIAL DEVELOPMENT: SOVIET POWER MACHINERY NO. 21. 12 Nov 63, 24p. JPRS: 21831.
Order from OTS $0.75 TT-63-41123

Consists of 4 articles from 1963 issues of Russian journals and newspapers.

Separate entries have been prepared for the individual articles.

USSR INDUSTRIAL DEVELOPMENT: SOVIET CONSTRUCTION MACHINERY NO. 42. 18 Nov 63, 18p JPRS: 21892.
Order from OTS $0.50 TT-63-41149

Trans. of Stroitel'nye i Dorozhnye Mashiny (USSR) 1963 [v. 8] no. 8, p. 6-7, 10-11, 13-14, 22-23, 27-29, 31-32, 35-36.

Separate entries have been prepared for the individual articles.

Dubovskii, I. E., Tyryshkin, V. G., and Ponarskii, L. I.
CONFERENCE OF THE POWER-MACHINERY INDUSTRY, LENINGRAD, APR 63. 12 Nov 63, 9p JPRS: 21831.
Order from OTS $0.75 in TT-63-41123 (p. 7-15)

Trans. of Energomashinostroenie (USSR) 1963 [v. 9] no. 8, p. 38-39.

Firsov, V.
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METAL SCIENCE AND HEAT TREATMENT

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DOKLADY

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U.S. DEPARTMENT OF COMMERCE FIELD OFFICES

SERVE THE BUSINESS COMMUNITY

The Department of Commerce maintains Field Offices to enable the business community to avail itself locally of Government facilities designed to promote commerce. Working closely with various units in the Department and, when necessary, with other Government agencies, the Field Offices provide business services to manufacturers, wholesalers, retailers, trade publications, trade associations, advertising agencies, research groups, financial institutions, and exporters and importers.

Experienced personnel will gladly assist in the solution of specific problems, explain the scope and meaning of regulations administered by the Department, and provide practical assistance in the broad field of domestic and foreign commerce. Field Offices act as official sales agents of the Superintendent of Documents, and maintain an extensive business reference library containing periodicals, directories, publications and reports from official as well as private sources.

Among the many services which businessmen have found of value are:

GENERAL

- Management and business aids
- Establishing a new business

BASIC ECONOMIC DATA

- Census data with national and often State and regional breakdowns, on manufacturing wholesaling, retailing, service industries, employment and unemployment, population, housing, agriculture
- Basic records of national income and product, regional trends, balance of payments, foreign aid

MARKETING AND DISTRIBUTION

- Development and maintenance of markets
- Distribution channels, facilities and services
- Marketing and distribution statistics

PRODUCTION

- Modernization of plant processes and other technological aids
- Development of new products
- Government-owned patents for free license
- Commodity standards

FOREIGN TRADE AND INVESTMENT

- Tariff and exchange regulations
- Import and export quotas, licensing regulations
- Statistics on imports and exports
- Investment and trade opportunities abroad
- Economic conditions in foreign countries

COOPERATIVE OFFICES

To make the services of the Department of Commerce more widely available, agreements have been entered into with more than 750 Chambers of Commerce, Manufacturers Associations, and similar business groups under which these organizations have become official Cooperative Offices of the Department. If specific information is not on hand in the Cooperative Office, your problem will be referred to the nearest Departmental field office.

Department Field Offices

Albuquerque, N. Mex., 87101, U. S. Courthouse. 247-0311.
Anchorage, Alaska, 99501, Room 60, U.S. Post Office and Courthouse. Phone: BR 2-9611.
Atlanta, Ga., 30303, 75 Forsyth St., N.W. JAckson 2-4121.
Birmingham, Ala., 35203, Title Bldg., 2028 Third Ave., North. Phone: 323-8011.
Boston, Mass., 02110, Room 230, 80 Federal Street. CApitol 3-2312.
Buffalo, N.Y., 14203, 504 Federal Building, 117 Ellicott St., TL 3-4216.
Charleston, S. C., 29401, Suite 201, Marcus Building, 6 Broad Street. Phone: 722-6551.
Cheyenne, Wyo., 82001, 207 Majestic Bldg., 16th & Capitol Ave. Phone: 634-2731.
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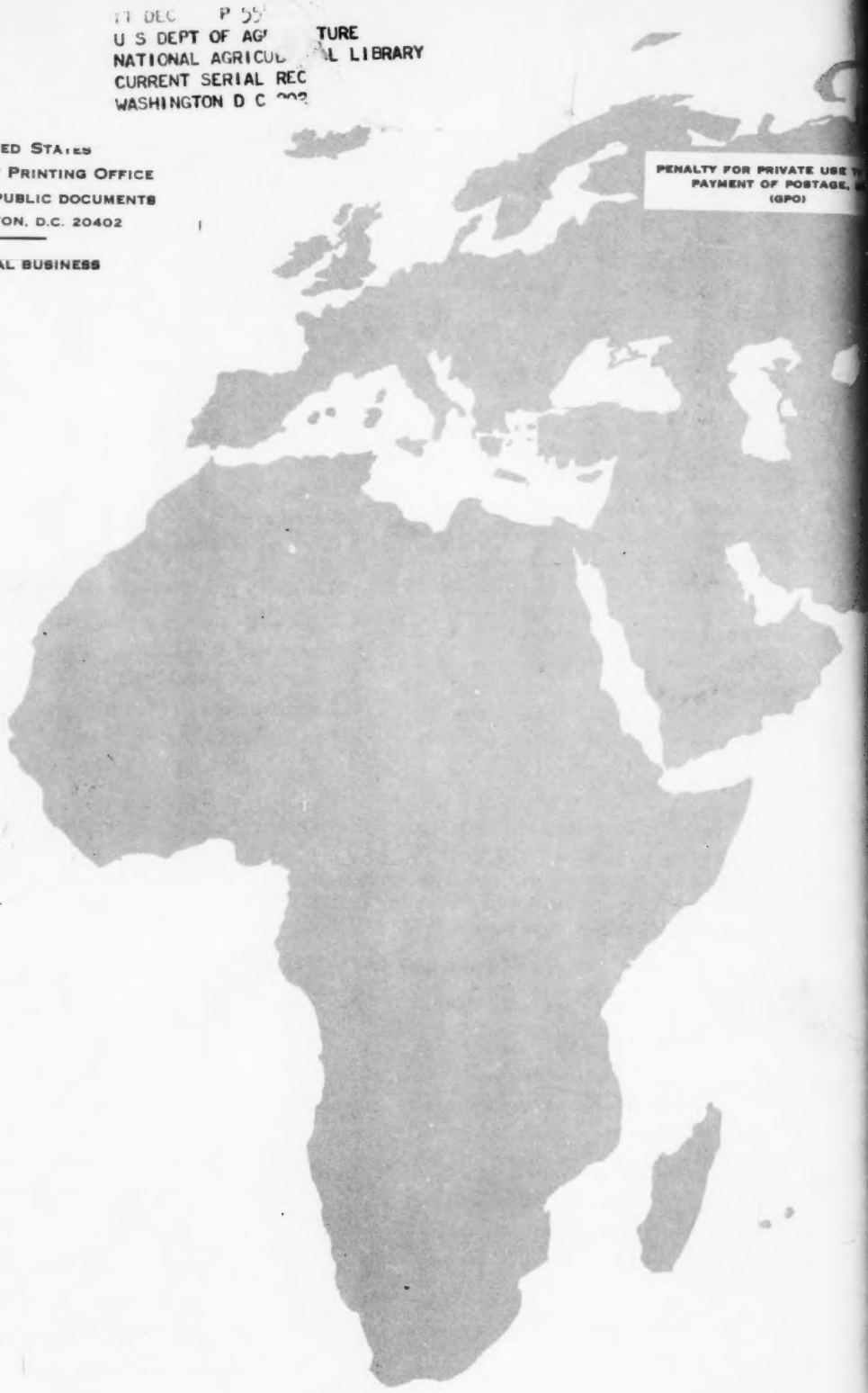

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U.S. DEPARTMENT OF COMMERCE FIELD OFFICES

SERVE THE BUSINESS COMMUNITY

The Department of Commerce maintains Field Offices to enable the business community to avail itself locally of Government facilities designed to promote commerce. Working closely with various units in the Department and, when necessary, with other Government agencies, the Field Offices provide business services to manufacturers, wholesalers, retailers, trade publications, trade associations, advertising agencies, research groups, financial institutions, and exporters and importers.

Experienced personnel will gladly assist in the solution of specific problems, explain the scope and meaning of regulations administered by the Department, and provide practical assistance in the broad field of domestic and foreign commerce. Field Offices act as official sales agents of the Superintendent of Documents, and maintain an extensive business reference library containing periodicals, directories, publications and reports from official as well as private sources.

Among the many services which businessmen have found of value are:

GENERAL

- Management and business aids
- Establishing a new business

BASIC ECONOMIC DATA

- Census data with national and often State and regional breakdowns, on manufacturing wholesaling, retailing, service industries, employment and unemployment, population, housing, agriculture
- Basic records of national income and product, regional trends, balance of payments, foreign aid

MARKETING AND DISTRIBUTION

- Development and maintenance of markets
- Distribution channels, facilities and services
- Marketing and distribution statistics

PRODUCTION

- Modernization of plant processes and other technological aids
- Development of new products
- Government-owned patents for free license
- Commodity standards

FOREIGN TRADE AND INVESTMENT

- Tariff and exchange regulations
- Import and export quotas, licensing regulations
- Statistics on imports and exports
- Investment and trade opportunities abroad
- Economic conditions in foreign countries

COOPERATIVE OFFICES

To make the services of the Department of Commerce more widely available, agreements have been entered into with more than 750 Chambers of Commerce, Manufacturers Associations, and similar business groups under which these organizations have become official Cooperative Offices of the Department. If specific information is not on hand in the Cooperative Office, your problem will be referred to the nearest Departmental field office.

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